



Environmental Bulletin

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from the Savannah River Site

D-Area Expanded Operable Unit (DEXOU) Remedial Action Fact Sheet Available for Review

The United States Department of Energy (USDOE), United States Environmental Protection Agency (USEPA), and South Carolina Department of Health and Environmental Control (SCDHEC) announce the completion of the final design of the remedy selected for the DEXOU and the availability of a Pre-construction Fact Sheet. This fact sheet provides a description of the remedy selected for the DEXOU at the Savannah River Site (SRS).

DEXOU is located within D Area at SRS, Barnwell County, South Carolina, approximately 3,000 feet east of the nearest site boundary and consists of two units, the 488-D Ash Basin (488-DAB) and the D-Area Rubble Pit (DRP).

The DRP was used as a disposal facility and covers an area of approximately 8 acres. Disposed material is present in the eastern main fill area (4.4 acres) at depths up to 6 ft. The remaining area is contaminated typically to a depth of only 1 ft. Waste consists of metallic and construction debris; treated lumber and wood products; roofing and paving materials such as asphalt, shingles and tar; transite; and coal rejects. Contaminants include arsenic, antimony, beryllium, selenium, zinc, benzo(a)pyrene, and polychlorinated biphenyl.

The 488-DAB is an unlined, earthen containment basin that received ash-sludge from the 484-D powerhouse from the 1950s to 1978, and dry ash and coal rejects from 1978 to the 1990s. Ash and coal rejects are also present outside the basin. The basin is approximately 1,875 ft long and 530 ft wide, with a depth of 18 ft. Low pH water and a zone of vegetative kill is present northwest of the 488-DAB. The impacted area outside the basin is approximately 4.4 acres and is contaminated typically to a depth of about 1 ft. Contaminants include arsenic, selenium, several metals, and coal-related radionuclides.

The remedial action selected in the Record of Decision for the DEXOU consists of the following:

The selected remedy for DRP includes removal and consolidation of waste at the 488-DAB for inclusion under a

geosynthetic cover system. Clean fill material will be placed over the excavated areas. Within the excavation limits, all visible waste and coal rejects will be excavated. Land use controls (LUC) will be applied to restrict residential use as long as there is a human health risk to potential residents.

The selected remedy for 488-DAB includes consolidating all waste outside the basin for inclusion under a geosynthetic cover system (approximately 27 acres). Contaminated surface water will be treated with limestone. Clean fill material will be placed over the excavated areas. Within the limits of excavation, all visible waste and coal rejects will be excavated. LUCs will be applied in perpetuity or until the waste left in place no longer poses a risk to human health or the environment. Consolidation of waste material and placement under a geosynthetic cover system breaks exposure pathways by restricting contaminant migration and providing an exposure barrier.

The Pre-construction Fact Sheet for the SRS DEXOU is available at the following locations:

DOE Public Reading Room at the Gregg-Graniteville Library at the University of South Carolina (USC)-Aiken campus in Aiken, SC; Thomas Cooper Library Government Documents Department at USC in Columbia, SC; Reese Library at Augusta State University in Augusta, GA; and Asa H. Gordon Library at Savannah State University in Savannah, GA.

The Pre-construction Fact Sheet is also available on the Internet on the SRS webpage on the Soil and Groundwater Closure Projects webpage/Public Involvement, (<http://www.srs.gov/general/programs/soil/pub/pubinv.html>). For additional information contact Jim Moore at 1-800-249-8155 or e-mail: jim02.moore@srs.gov

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